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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
09/872,865	06/01/2001	William L. Nighan JR.	17960-231	2051			
25213 7.	590 04/19/2004		EXAMINER				
HELLER EH	RMAN WHITE & MCAI	RODRIGUEZ, ARMANDO					
275 MIDDLEF	TIELD ROAD K. CA 94025-3506	ART UNIT	PAPER NUMBER				
MENEOTARR, CA 74025-3300			2828				
			DATE MAILED: 04/19/2004	1			

Please find below and/or attached an Office communication concerning this application or proceeding.

1)	\boxtimes	No	otice	of	Re	eferences	Ci	ted	(P	то	-892	2)
										_		

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.

U.S. Patent and Trademark Office

PTOL-326 (Rev. 1-04)

Attachment(s)

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

6) Other: _

Notice of Informal Patent Application (PTO-152)

DETAILED ACTION

Response to Arguments

Applicant's arguments filed on December 17, 2003 have been fully considered but they are not persuasive.

Applicant's arguments on page 6 discusses the cited Amano reference as not teaching or suggesting a frequency doubled output beam, an output power of at least 1 watt and an optical efficiency of at least 23%.

Figure 2 of Amano illustrates a diode pumped laser system having:

- 1. Mirrors (16) and (17) to form a cavity, same as applicant's claims 1,20 and 21.
- 2. Laser crystal (10) made of Nd:YVO₄, same as applicant's claims 1,20 and 21.
- An LBO wavelength conversion crystal (12), same as applicant's claims
 1,20 and 21.

Therefore, Amano illustrates a laser system having the same elements and having the same structural arrangement as applicant's claimed laser system thereby both laser system being similar will inherently provide similar output beams, that is, having similar output power, optical efficiency and a doubled frequency.

Something, which is old, does not become patentable upon the discovery of a new property. The claiming of a new use, new function or unknown property,

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which is inherently present in the prior art, does not necessarily make the claim patentable.

In re Best, 562 F.2d 1252, 1254, 195 USPQ 430, 433 (CCPA 1977).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Amano (PN 5,265,115).

Figure 2 illustrates a solid-state laser system having a laser diode (18), a laser crystal (10), a wavelength conversion crystal (12) within a resonant cavity formed by mirrors (16) and (17), as described in columns 3 and 4. Column 9 lines 50-68 disclose and teach using an Nd:YVO₄ for the laser crystal and an LBO for the wavelength conversion crystal.

Figure 2 illustrates a similar structural arrangement using the similar elements within the resonant cavity; as such the axial modes, output power and RMS noise will be inherent to the laser system.

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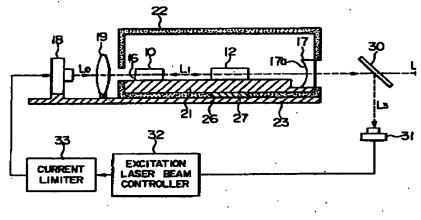


FIG. 2

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Armando Rodriguez whose telephone number is 571-272-1952. The examiner can normally be reached on flex / M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

rmando Rodriguez

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AR/DW

Don Wong

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Supervisor/